

Attorney Docket No.: 01CON355P-CON  
Application Serial No.: 10/628,904

**List of Claims:**

**Claims 1-42 (Cancelled)**

**Claim 43 (Previously Presented):** A method of speech encoding comprising:  
generating a first synthesized speech signal from a first excitation signal;  
weighting said first synthesized speech signal using a first error weighting filter to  
generate a first weighted speech signal;  
generating a second synthesized speech signal from a second excitation signal;  
weighting said second synthesized speech signal using a second error weighting filter to  
generate a second weighted speech signal; and  
generating an error signal using said first weighted speech signal and said second  
weighted speech signal;  
wherein said first error weighting filter is different from said second error weighting  
filter.

**Claim 44 (Previously Presented):** The method of claim 43, wherein said generating said  
error signal further comprises:  
weighting said speech signal using a third error weighting filter to generate a third  
weighted speech signal; and  
subtracting said first weighted speech signal and said second weighted speech signal from  
said third weighted speech signal to generate said error signal.

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**Claim 45 (Previously Presented):** The method of claim 44, wherein said third error weighting filter is independent from and the same as said first error weighting filter.

**Claim 46 (Previously Presented):** The method of claim 43, wherein said first excitation signal is from a first codebook and said second excitation signal is from a second codebook, said method further comprising:

using said error signal to independently select a third excitation signal from said first codebook and a fourth excitation signal from said second codebook; and

using said error signal to independently select a third gain to apply to said third excitation signal and a fourth gain to apply to said fourth excitation signal.

**Claim 47 (Previously Presented):** The method of claim 43, wherein said generating said first synthesized speech signal uses a first synthesizer and said generating said second synthesized speech signal uses a second synthesizer, and wherein said first synthesizer is independent from said second synthesizer.

**Claim 48 (Previously Presented):** The method of claim 47, wherein said first synthesizer is the same as said second synthesizer.

**Claim 49 (Previously Presented):** A speech encoder comprising:

a first codebook;

a second codebook;

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a speech synthesizer configured to generate a first synthesized speech signal from a first excitation signal of said first codebook and to generate a second synthesized speech signal from a second excitation signal of said second codebook;

a first error weighting filter configured to generate a first weighted speech signal from said first synthesized speech signal;

a second error weighting filter configured to generate a second weighted speech signal from said second synthesized speech signal; and

an error signal generator configured to an error signal using said first weighted speech signal and said second weighted speech signal;

wherein said first error weighting filter is different from said second error weighting filter.

**Claim 50 (Previously Presented):** The speech encoder of claim 49, wherein said speech synthesizer includes a first speech synthesizer for generating said first synthesized speech signal and a second speech synthesizer for generating said second synthesized speech signal.

**Claim 51 (Previously Presented):** The speech encoder of claim 49 further comprising a third error weighting filter to generate a third weighted speech signal from said speech signal, wherein said error signal generator includes a signal subtractor configured to subtract said first weighted speech signal and said second weighted speech signal from said third weighted speech signal to generate said error signal.

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**Claim 52 (Previously Presented):** The speech encoder of claim 51, wherein said third error weighting filter is independent from and the same as said first error weighting filter.

**Claim 53 (Previously Presented):** The speech encoder of claim 49, wherein said speech encoder uses said error signal to independently select a third excitation signal from said first codebook and a fourth excitation signal from said second codebook, and to independently select a third gain to apply to said third excitation signal and a fourth gain to apply to said fourth excitation signal.

**Claim 54 (Previously Presented):** A speech encoder comprising:

- means for generating a first synthesized speech signal from a first excitation signal;
- means for weighting said first synthesized speech signal to generate a first weighted speech signal;
- means for generating a second synthesized speech signal from a second excitation signal;
- means for weighting said second synthesized speech signal to generate a second weighted speech signal; and
- means for generating an error signal using said first weighted speech signal and said second weighted speech signal;

wherein said means for weighting said first synthesized speech signal is different from said means for weighting said second synthesized speech signal.

**Claim 55 (Previously Presented):** The speech encoder of claim 54 further comprising:

- means for weighting said speech signal to generate a third weighted speech signal; and

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means for subtracting said first weighted speech signal and said second weighted speech signal from said third weighted speech signal to generate said error signal.

**Claim 56 (Previously Presented):** The speech encoder of claim 55, wherein means for weighting said speech signal is independent from and the same as said means for weighting said first synthesized speech signal.

**Claim 57 (Previously Presented):** The speech encoder of claim 54, wherein said first excitation signal is from a first codebook and said second excitation signal is from a second codebook, said speech encoder further comprising means for using said error signal to independently select a third excitation signal from said first codebook and a fourth excitation signal from said second codebook, and means for using said error signal to independently select a third gain to apply to said third excitation signal and a fourth gain to apply to said fourth excitation signal.

**Claim 58 (Previously Presented):** The speech encoder of claim 54, wherein said means for generating said first synthesized speech signal is independent from said means for generating said second synthesized speech signal.

**Claim 59 (Previously Presented):** The speech encoder of claim 58, said means for generating said first synthesized speech signal is the same as said means for generating said second synthesized speech signal.